



**GAS TURBINE
FULL POWER & QUICK
REVERSALS
GRADE SHEET
(Ver.01)**

FULL POWER POINT DEDUCTIONS GAS TURBINE	
ABILITY TO DEMONSTRATE FULL POWER	MAX DEDUCTION
Equipment Pre-reqs not met IAW OPNAVINST 9094.	1.0
Full power terminated due to equipment casualties/safety concerns.	.50
Deduction of .01 will be made for every percentage point below the required 100% Full Power (srpm/shp) achieved.	-.01 per percentage point below min. SHP/RPM
Any system not operated IAW EOP/design specification.	.25
COMPLIANCE WITH ENGINEERING PROCEDURES AND APPLICABLE SAFETY PRECAUTIONS	MAX SCORE (.50)

MAIN ENGINES	MAX DEDUCTION (.20)
Oil leaks in GTE module exceeding GTB 17 requirements.	.03
Any GTE alarm	.03
NGG (Gas Gen. Speed) split in excess of 200 rpm.	.01
T5.4 (power turbine inlet temp) split in excess of 100 degrees.	.01
NPT (power turbine speed) split in excess of 20 rpm.	.01
PT2 (turbine inlet pressure) split in excess of .2 psi.	.01
Fuel manifold pressure split in excess of 50 psi.	.01
T2 (turbine inlet temp) split in excess of 4 degrees	.01
Excessively low CDP (compressor discharge pressure)	.01
PT5.4 (power turbine inlet pressure) split exceeded 3 psi.	.01

FUEL OIL SYSTEMS	MAX DEDUCTION (.20)
Any Fuel Oil System Alarm	.05
High delta P across Filters/Strainers/Coalescer.	.02
Overall system integrity.	.06

MAIN LUBE OIL SYSTEMS	MAX DEDUCTION (.15)
Any Lube Oil System Alarm	.05
Lube oil Temp Regulating Valve operated manually.	.03

REDUCTION GEARS & SHAFTING	MAX DEDUCTION (.25)
Vent Fog Precipitator emitting oil vapor.	.05
Cooling Water Low Flow/Alarm.	.05
Excessive stern tube seal leakage.	.21
Cooling Water Strainer/Filter high delta P.	.05
CRP SYSTEMS	
Any CRP high filter delta P.	.02
Excessive lube oil leaks on Attached/Electric CRP Pump	.05

CONTROLS	MAX DEDUCTION (.20)
Torque split between GTE's of the same shaft exceeded 6,000 ft lbs.	.04
Faulty torque computer/or sensors.	.04
Minimum GTE torque requirements not achieved.	.05
Maximum GTE torque requirements exceeded.	.04
Spurious SCE system faults/alarms.	.01

QUICK REVERSALS POINT DEDUCTIONS GAS TURBINE	
ABILITY TO DEMONSTRATE QUICK REVERSALS	MAX DEDUCTION
Equipment Pre-reqs not met IAW OPNAVINST 9094.	1.0
Full power terminated due to equipment casualties/safety concerns.	.50
Deduction of .01 will be made for every percentage point below the required 100% Full Power Astern (srpm/shp) achieved.	-.01 per percentage point below min. SHP/RPM
Any system not operated IAW EOP/design specification.	.25
COMPLIANCE WITH ENGINEERING PROCEDURES AND APPLICABLE SAFETY PRECAUTIONS	MAX SCORE (.50)

MAIN ENGINES	MAX DEDUCTION (.20)
Lube oil leaks in GTE module exceeding GTB 17 requirements.	.03
Any GTE alarm	.03
NGG (Gas Gen. Speed) split in excess of 200 rpm.	.01
T5.4 (power turbine inlet temp) split in excess of 100 degrees.	.01
NPT (power turbine speed) split in excess of 20 rpm.	.01
PT2 (turbine inlet pressure) split in excess of .2 psi.	.01
Fuel manifold pressure split in excess of 50 psi.	.01
T2 (turbine inlet temp) split in excess of 4 degrees	.01
Excessively low CDP (compressor discharge pressure)	.01
PT5.4 (power turbine inlet pressure) split exceeded 3 psi.	.01

FUEL OIL SYSTEMS	MAX DEDUCTION (.20)
Any Fuel Oil System Alarm	.05
High delta P across Filters/Strainers/Coalescer.	.02
Overall system integrity.	.06

MAIN LUBE OIL SYSTEMS	MAX DEDUCTION (.15)
Any Lube Oil System Alarm	.05
Lube oil Temp Regulating Valve operated manually.	.03

REDUCTION GEARS & SHAFTING	MAX DEDUCTION (.25)
Vent Fog Precipitator emitting oil vapor.	.05
Cooling Water Low Flow/Alarm.	.05
Excessive stern tube seal leakage.	.21
Cooling Water Strainer/Filter high delta P.	.05
CRP SYSTEMS	
Any CRP high filter delta P.	.02
Excessive lube oil leaks on Attached/Electric CRP Pump	.01

CONTROLS	MAX DEDUCTION (.20)
Torque split between GTE's of the same shaft exceeded 6,000 ft lbs.	.04
Loss of CRP controls.	.01
Faulty torque computer/or sensors. Inop/Out of calibration Torsionometer	.04
Minimum GTE torque requirements not achieved.	.05
Maximum GTE torque requirements exceeded.	.04
Excessive PLA fluctuation/hunting.	.01
Spurious SCE system faults/alarms.	.01